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APPLICATION NO	.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/367,778		08/18/1999	PETER LIGGESMEYER	P99.0101	4756
21171	7590	03/18/2004		EXAMINER	
STAAS &	HALSE	EY LLP	TSAI, CAROL S W		
SUITE 700 1201 NEW		AVENUE, N.W.		ART UNIT	PAPER NUMBER
WASHING		•		2857	
				DATE MAILED: 03/18/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/367,778	LIGGESMEYER, PETER					
Office Action Summary	Examiner	Art Unit					
	Carol S Tsai	2857					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, for the period for reply is specified above, the maximum statutory properties of the period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of th eriod will apply and will expire SIX (6) MC statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	16 January 2004.						
•	This action is non-final.						
3) Since this application is in condition for all	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and sub	ndrawn from consideration.						
Application Papers							
9) The specification is objected to by the Example 1	miner.						
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.					
Applicant may not request that any objection to							
Replacement drawing sheet(s) including the co).				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee ureau (PCT Rule 17.2(a)).	Application No n received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152) 					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/16/2004 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims1-6 and 8-11 are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent No. 5,161,115 to Teshima et al.

With respect to claims 1, 4-6, and 8-11, Teshima et al. disclose a method for computer-supported error analysis of at least one of sensors and actuators in a technical system, the error analysis being in a form of a finite state description that exhibits states of the technical system, the method using a computer, comprising the steps of: a) determining a finite state description of the technical system for an error case of an error of at least one of a sensor and an actuator in the technical system (see col. 2, lines 51-64; col. 6, lines 36-41 and lines 57-59; col.

6, line 60 to col. 7, line 4; and col. 11, lines 29-40); b) determining a first set of achievable states for the technical system without errors using the finite state description; c) determining a second set of achievable states for the technical system having an error, using the finite state description d)forming a difference set from the first set and the second set; and e) determining result conditions from the difference set, the result conditions meeting prescribable conditions (see Figs. 10-12; col. 2, lines 35-50; col. 5, lines 3-31; col. 6, line 60 to col. 8, line 46; and col. 9, lines 32 to col. 10, line 22).

As to claims 2 and 3, Teshima et al. also disclose method steps a) through e) being implemented for all possible errors of sensors and actuators in the technical system (see Fig. 3; col. 4, lines 3-9; col. 7, lines 42-61; and col. 8, lines 34-46).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Teshima et al. in view of U. S. Patent No. 5,680,322 to Raimi et al.

As noted above, Teshima et al. disclose the claimed invention, except for the finite state description being realized by a finite automat formed as a binary decision diagram.

Raimi et al. teach the finite state description being realized by a finite automat formed as a binary decision diagram (see col. 7, lines 5-53).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Teshima et al.'s method to include the finite state description being realized by a finite automat formed as a binary decision diagram, as taught by Raimi et al., because a finite state machine having the symbolic representation of sets of states and of Boolean functions with the aid of binary decision diagram can often describe a FSM much more efficiently and concisely than explicit descriptions, such as explicit state graphs or explicit state tables (see col. 7, lines 45-49).

Response to Arguments

6. Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol S. Tsai whose telephone number is (703) 305-0851. The examiner can normally be reached on Monday-Friday from 7:30 AM to 4:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (703) 308-1677. The fax number for TC 2800 is (703) 308-7382. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2800 receptionist whose telephone number is (703) 308-1782.

In order to reduce pendency and avoid potential delays, Group 2800 is encouraging FAXing of responses to Office actions directly into the Group at (703) 308-7382. This practice

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may be used for filing papers not requiring a fee. It may also be used for filing papers which require a fee by applicants who authorize charges to a PTO deposit account. Please identify the examiner and art unit at the top of your cover sheet. Papers submitted via FAX into Group 2800 will be promptly forwarded to the examiner.

Carol S. W. Tsai Patent Examiner

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02/25/04